



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/642,770	08/18/2003	Tae Kun Yoo	2566.2.38	3706

21552 7590 08/02/2005

MADSON & METCALF
GATEWAY TOWER WEST
SUITE 900
15 WEST SOUTH TEMPLE
SALT LAKE CITY, UT 84101

EXAMINER

TRUONG, BAO Q

ART UNIT	PAPER NUMBER
----------	--------------

2875

DATE MAILED: 08/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

88

Office Action Summary	Application No. 10/642,770	Applicant(s) YOO, TAE KUN	
	Examiner Bao Q. Truong	Art Unit 2875	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 May 2005.
 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 and 7-14 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) ☐ Claim(s) _____ is/are allowed.
 6) ☒ Claim(s) 1-5 and 7-14 is/are rejected.
 7) ☐ Claim(s) _____ is/are objected to.
 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
 10) ☒ The drawing(s) filed on 23 May 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☒ All b) ☐ Some * c) ☐ None of:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 8, 9 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by C.A. Balchunas [US 3,328,570].

Regarding claim 8, C.A. Balchunas discloses a light guide panel [1], a light source [15], and a slanted light guide part [4] with only one side slope and one end adjacent to the light source being thicker than the other end (figure 1).

Regarding claim 9, C.A. Balchunas discloses a slanted light guide part [4] with a slop for internal reflection (figure 1, column 1 lines 30-35).

Regarding claim 13, C.A. Balchunas discloses the slanted light guide part [4] being separately formed the light guide panel [1] (column 2 lines 25-29).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 10, 12 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over C.A. Balchunas in view of Cordy, Jr. [US 5,190,365].

Regarding claim 10, C.A. Balchunas discloses a slanted light guiding part [4] being formed of straight lines and oblique lines (figure 1). C.A. Balchunas does not disclose the curved lines.

Cordy, Jr. teaches the use of the curved line to form a slanted light guide part [23, 25] (figure 7).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the slanted light guide part of C.A. Balchunas with the curved line as taught by Cordy, Jr. to spread more light for purpose of providing an advantageous way of receive and transmit most light from a light source to a light guide panel.

Regarding claims 12 and 14, Cordy, Jr. discloses the slanted light guiding part and the light radiating part being made from different materials (column 6 lines 8-9).

6. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over C.A. Balchunas in view of the applicant's admitted prior art.

Regarding claim 11, C.A. Balchunas discloses a slanted light guide part [4] but does not disclose the recessed fitting part.

The applicant's admitted prior art discloses a slanted light guide part with a recessed fitting part (drawing sheet of FIG. 3).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the slanted light guide part of C.A. Balchunas with the recessed fitting part as taught by FIG. 3 of the applicant's admitted prior art for purpose of providing an advantageous way of removable assembly to the light guide panel.

7. Claims 1-5 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cordy, Jr. in view of the applicant's admitted prior art.

Regarding claim 1, Cordy, Jr. discloses a light guide panel [14] having a light radiating part [upper surface 14], a light source [12], and a slanted light guiding part [23, 25] (figures 4-7, column 6 lines 1-25). Cordy, Jr. does not disclose the recessed fitting part.

The applicant's admitted prior art discloses a slanted light guide part with a recessed fitting part (drawing sheet of FIG. 3).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the slanted light guide part of Cordy, Jr. with the recessed fitting part as taught by FIG. 3 of the applicant's admitted prior art for purpose of providing an advantageous way of removable assembly to the light guide panel.

Regarding claim 2, Cordy, Jr. discloses the slope of the slanted light guiding part being below a critical angle according to an index of refraction of each medium (figures 6-7).

Regarding claim 3, Cordy, Jr. discloses the slanted light guiding part being formed of straight lines, oblique lines and curved lines (figure 7).

Regarding claim 4, Cordy, Jr. discloses the slanted light guiding part being separately from the light radiating part (air gap between- column 6 lines 4-5).

Regarding claims 5 and 7, Cordy, Jr. discloses the slanted light guiding part and the light radiating part being made from different materials (column 6 lines 8-9).

Response to Amendment

8. Applicant's amendments and arguments with respect to claims 1-5 and 8-14 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hotta [US 5,711,592] disclose a light guide panel with a slanted light guiding part.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao Q. Truong whose telephone number is (571) 272-2383. The examiner can normally be reached on Monday-Friday (8:00 AM - 4:00 PM).


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra L. O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/642,770
Art Unit: 2875

Page 7

Bao Q. Truong
Examiner
Art Unit 2875



JOHN ANTHONY WARD
PRIMARY EXAMINER